

Roanoke River Flow Report

Chronological Record of Watershed Events.....	75
Initial (1988) Recommended and Negotiated Flow Regimes	81
The 1993 Flow Recommendations of the Committee Regarding the Striped Bass Spawning Window	83
Heavy Metal Contaminants in Sediments of the Lower Roanoke River, Lower Chowan River, and Inner Albemarle Sound, North Carolina, <i>Stanley R. Riggs, John T. Bray, Craig Hamilton, Charles P. Klingman, Robert A. Wyrick, and Dorothea v. Ames</i>	
Introduction.....	89
Description of the Roanoke River/Albemarle Sound Estuarine System.....	89
The Roanoke River/Albemarle Sound Drainage Basin.....	89
Modern Surface Sediments.....	91
Samples.....	93
Data Analysis	94
Results and Discussion	98
Lower Roanoke River.....	98
Welch Creek.....	100
Middle and Cashie Rivers.....	101
Lower Chowan River	101
Inner Albemarle Sound	104
Conclusions.....	106
Hydrology, 1991-1993.....	109
General Conditions, <i>Reid Campbell</i>	109
1991	109
1992	109
1993	110
Kerr Reservoir Operation, <i>Max Grimes</i>	131
Hourly and Mean Flows, <i>Charles S. Manooch, III</i>	136
1991	136
1992	136
1993	137
Roanoke River Time Series Analysis for 1991, <i>L.H. Zincone, Jr.</i>	145
Introduction	145
ARIMA Analysis.....	145
Autoregression Analysis.....	146
Conclusions	147
Roanoke River Time Series Analysis for 1992, <i>L.H. Zincone, Jr.</i>	150
Introduction	150
Autoregression Analysis - Daily Data	152
Autoregression Analysis - Hourly Data.....	152
Conclusions	156
Roanoke River Time Series Analysis for 1993, <i>L.H. Zincone, Jr.</i>	156
Introduction	156
ARIMA Analysis.....	157
Autoregression Analysis - Daily Data	157
Autoregression Analysis - Hourly Data.....	158
Conclusions	158
Kerr Reservoir Operation in Hindsight, 1991-1993, <i>Max Grimes</i>	160